



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink-L28

Issued: 24 May 2021 / 0700L (1100Z)

Valid: 26 May 2021 / 1359 – 1600L (1759 – 2000Z)



Forecast Discussion: Pleasant weather will continue across Central Florida as high pressure dominates the region. Warm afternoons with partly cloudy skies and very isolated showers will persist for the next few days. High temperatures will be in the mid to upper 80s along the Space Coast and over 90F inland. A slight chance for showers is also possible over the Spaceport each day, mostly in the mornings as the sea breeze pushes inland. On Wednesday, similar conditions are expected with only a very slight chance of a cumulus cloud moving into the flight path at launch time.

On Thursday, the high pressure ridge will begin to weaken, but remain strong enough to suppress convection through the launch window. The primary launch weather concern remains a low chance of a Cumulus Cloud Rule violation.

Launch Day	Probability of Violating Weather Constraints							
	10%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	85°F / 50%	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low
Liftoff Winds (200’):		120° 10 - 15 mph			Solar Activity:		Low	
24-Hour Delay	Probability of Violating Weather Constraints							
	20%	Primary Concerns: Cumulus Cloud Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	85°F / 50%	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low
Liftoff Winds (200’):		150° 12 - 17 mph			Solar Activity:		Low	
<i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.</i>								
Next Forecast Will Be Issued		25 May 2021						

Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.